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(71) Applicant (for all designated States except US): ALBEMARLE NETHERLANDS B.V. [NL/NL]; Stationsplein 4, NL-3818 LE Amersfoort (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VAN BROEKHOVEN, Emanuel, Hermanus [NL/NL]; Trintel 131, NL-1141 DN Monnickendam (NL). SANT, Jan [NL/NL]; Papirusdreef 56, NL-3564 CP Utrecht (NL). ZUIJDENDORP, Stephan [NL/NL]; Zuilenburg 11, NL-1965 NV Heemskerk (NL). WINKLER, Niels [NL/NL]; Rochus Meeuwiszstraat 3, NL-3554 VR Utrecht (NL).

(74) Agent: SCHALKWIJK, Pieter, Cornelis; Akzo Nobel N.V., Intellectual Property Dept. (Dept. AIP), P.O. Box 9300, NL-6800 SB Arnhem (NL).

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(54) Title: ALKYLATION PROCESS USING A CATALYST COMPRISING A SOLID ACID AND A HYDROGENATION METAL

(57) **Abstract:** The invention relates to a process for alkylating a hydrocarbon feed which comprises contacting the hydrocarbon feed to be alkylated with an alkylation agent in the presence of a catalyst comprising a solid acid, a hydrogenation metal, and 1.5 - 6 wt% of water, measured as the loss on ignition at 600°C. The presence of 1.5 - 6 wt% of water results in a higher activity and a higher alkylate quality compared with a comparable but drier catalyst.